This listing of claims are the claims in the present application:

Listing of Claims:

- 1.-12. (Cancelled).
- 13. (original) A method of grain moisture sensing and measurement comprising:
- selecting a frequency from a plurality of frequencies; applying the frequency to a parallel plate cell filled with grain;
- measuring a first complex admittance of the parallel plate cell filled with grain;
- applying the frequency to a reference;
- measuring a second complex admittance of the reference; and computing a complex permittivity from the first complex admittance and the second complex admittance.
- 14. (original) The method of claim 13 wherein the step of computing includes applying a calibration factor to the reference admittance to calculate an empty cell admittance.
- 15. (original) The method of claim 13 further comprising selecting the second reference admittance from a plurality of reference admittances.
- 16. (Withdrawn) A method of measuring moisture of grain comprising:

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measuring real and imaginary components of an excitation voltage having a frequency applied to a driven plate of a parallel plate cell;

measuring real and imaginary components of a sense current sensed at a sense plate of the parallel plate cell; calculating a complex admittance of the parallel plate cell; calculating a complex admittance of a reference admittance; and

calculating a grain complex permittivity.

- 17. (Withdrawn) The method of claim 16 further comprising using a plurality of references to determine one or more distortion characteristics of measuring the real and imaginary components.
- 18. (Withdrawn) The method of claim 17 further comprising correcting for the determined distortion characteristics.
- 19. (Withdrawn) The method of claim 16 wherein the reference admittance is selected from a set comprising the parallel plate cell when empty, a capacitive load, and a complex impedance load.
- 20. (Withdrawn) The method of claim 16 further comprising changing the frequency of the excitation voltage.
- 21. (Withdrawn) The method of claim 16 further comprising selecting the reference admittance.
- 22.-26. (Cancelled).

- 27. (previously presented) A method of claim 13 further comprising:
- measuring real and imaginary components of an excitation voltage having a frequency applied to a driven plate of a parallel plate cell;
- measuring real and imaginary components of a sense current sensed at a sense plate of the parallel plate cell;
- calculating the first complex admittance of the parallel plate cell;
- calculating the second complex admittance of a reference admittance; and
- calculating a grain complex permittivity.
- 28. (previously presented) The method of claim 16 further comprising using a plurality of references to determine one or more distortion characteristics of measuring the real and imaginary components.
- 29. (previously presented) The method of claim 17 further comprising correcting for the determined distortion characteristics.
- 30. (previously presented) The method of claim 16 wherein the reference admittance is selected from a set comprising the parallel plate cell when empty, a capacitive load, and a complex impedance load.
- 31. (previously presented) The method of claim 16 further comprising changing the frequency of the excitation voltage.

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32. (previously presented) The method of claim 16 further comprising selecting the reference admittance.